

XCE0421/01



गुणवत् शिक्षण

**INDUS
UNIVERSITY**

Enrollment No:

INDUS UNIVERSITY**IITE//IMS/ISHLS/IICT****Constituent Institutes of Indus University**

Semester:	IV	Branch:	CE/CS/IT
END SEMESTER EXAMINATION			
Subject Code:	CE0421	Subject Name:	Core Java Programming
Date:	18/5/2022	Time:	10:00am To 11:30am
Day:	Wednesday	Total Marks:	40

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

Q.1 What is an Access Specifier? Explain it's with suitable example with appropriate output in detail. **04**

Q.2 List and explain feature of java in detail. **06**

OR

What is package? Why we are use package in java. Explain steps to create package with example. **06**

Q.3 Differentiate between abstract class and Interface. **04**

Q.4 Declare a class called employee having employee_id and employee_name as members. Extend class employee to have a subclass called salary having designation, department and monthly_salary as members. Define following: **06**

1. A method to find and display all details of employees drawing salary more than Rs. 10000/-.
2. if salary is less than 10000/- throwing the ArithmeticException otherwise display all details of employee
3. Method main for creating an array for storing these details.

OR

Write a client-server program using TCP/IP sockets to print the message send by the client. **06**

Q.5 Write a program that counts number of characters, words, and lines in a file. **04**

Q.6 Write a program to add and remove elements to an ArrayList and display the all elements. **06**

OR

What is multi threading? Why it is required? Write a program that creates three threads. Make sure that the main thread executes last. **06**

Q.7 Which methods are called by an applet viewer during the lifetime of an applet? When are they invoked? **04**

Q.8 Write a program to create two threads, one thread will print odd numbers and second thread will print even numbers between 1 to 100 numbers. **06**